

ABSTRACTS

A reciprocating slat conveyor is composed of laterally spaced apart movable conveyor slats (10) and fix conveyor slats (12) laterally between the movable slats (10). The movable slats (10) are clamped to transverse drive beams (56) by clamp structure that includes an upper clamp member (62) and a lower clamp surface (70) carried by the transverse drive beam (56). Bottom flanges (66,68) on channel members (60) are clamped between the clamp member (72) and the clamp surface (70). The channel member (60) is connected to a central portion (32) depending from the movable slat top wall (14,16).

Portions (30, 32) carry bottom members (34) having side portions (36, 38). The side portions (36,38) are in contact with lower bearing surfaces (42,44). The top wall members (14, 16) of the conveyor slats (10) rest on the upper portions of the bearings (28,30). An apron (84) extends laterally across the rear end portion of the conveyor. Apron (84) slopes downwardly and rearwardly from a front end (86) to a rear end (88). The movable conveyor slats (10) have rear end portions which move back and forth above a space defined by the apron (84) and a rear door (82) on the conveyor.